The opinion in support of the decision being entered today was *not* written for publication and is *not* binding precedent of the Board

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Ex parte ZHENG J. LI and ANDREW V. TRASK

Appeal 2007-1348 Application 10/650,253 Technology Center 1600

Oral Argument: None Decided: 01 May 2007

Before: FRED E. McKELVEY, Senior Administrative Patent Judge, and ROMULO H. DELMENDO and SALLY GARDNER LANE, Administrative Patent Judges.

McKELVEY, Senior Administrative Patent Judge.

DECISION ON APPEAL

- 1 A. Statement of the case
- This ex parte appeal under 35 U.S.C. § 134(a) is from rejections of
- 3 claims 125 and 128-144.
- We have jurisdiction under 35 U.S.C. § 6(b).
- The application on appeal was filed on 27 August 2003.

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1 The application on appeal is said to be a continuation of application 2 10/152,106, filed 21 May 2002, which claims benefit of (1) provisional application 60/343,041, filed 21 December 2001, (2) provisional application 3 60/297,741, filed 12 June 2001, and (3) provisional application 60/292,565, 4 5 filed 22 May 2001. 6 The real party in interest is Pfizer Inc. 7 The Examiner rejected claims 125 and 128-144 for failure to comply with the enablement requirement of the first paragraph of 35 U.S.C. § 112. 8 9 The Examiner further rejected claims 125 and 128-144 as being 10 anticipated under 35 U.S.C. § 102(b), alternatively as being unpatentable 11 under 35 U.S.C. § 103(a), over Bright. 12 The Examiner still further rejected claims 125 and 128-144 as being unpatentable under 35 U.S.C. § 103(a) over Singer and Curatolo. (The 13 14 reader should know that no references to et al. are made in this opinion.) 15 The following references were relied upon by the Examiner. 16 Patent Number Issue Date Name 17 02 Oct. 1984 Bright US 4,474,768 25 Feb. 1997 18 Curatolo US 5,605,889 19 Singer US 6,365,574 B2 02 Apr. 2002 20 Bright and Curatolo are prior art vis-à-vis appellants under 35 U.S.C. 21 22 § 102(b). 23 Singer is facially prior art vis-à-vis appellants under 35 U.S.C. 24 § 102(e). Appellants have abandoned any attempt to antedate Singer. 25 Supplemental Reply Brief, filed 16 October 2006.

1	В.	Record on appeal
2	1.	Specification, including original claims and a preliminary
3	amendme	ent to the specification setting out the claimed priority.
4	2.	Drawings
5	3.	Final Rejection entered 16 March 2006
6	4.	Brief on Appeal filed 03 August 2006
7	5.	Examiner's Answer entered 31 August 2006
8	6.	Reply Brief filed 13 September 2006
9	7.	Examiner's notation of Reply Brief entered 03 October 2006
10	8.	Supplemental Reply Brief filed 16 October 2006 (in which
11	appellant	s explicitly withdraw reliance on a Rule 131 declaration of
12	Dr. Rich	ard Todd Darrington seeking to antedate Singer)
13	9.	Bright
14	10	. Curatolo
15	11	. Singer
16	12	. Memorandum Opinion and Order (Decision on Motions) entered
17	in Li v. S	inger, Interference 105,366, Paper 71 (Bd. Pat. App. & Int. Nov. 8
18	2006)	a copy of the Memorandum Opinion and Order appears in the
19	evidence	appendix of the Appeal Brief.
20	_	
21		Issues
22		nere are three principal issues on appeal.
23		ne first issue is whether appellants have sustained their burden of
24	showing	that the Examiner erred in rejecting the claims on appeal under
25	25 11 0 (7 8 112 first paragraph, for lack of an enabling description

1	The second issue is whether appellants have sustained their burden of
2	showing that the Examiner erred in rejecting the claims on appeal as being
3	anticipated under 35 U.S.C. § 102(b) by Bright, alternatively that the
4	claimed subject matter is unpatentable under 35 U.S.C. § 103(a) over Bright.
5	The third issue is whether appellants have sustained their burden of
6	showing that the Examiner erred in rejecting the claims on appeal as being
7	unpatentable under 35 U.S.C. § 103(a) over Singer and Curatolo.
8	Involved in the resolution of all three issues is the scope of claim 125.
9	
10	D. Findings of fact
11	The following findings of fact are believed to be supported by a
12	preponderance of the evidence. To the extent that a finding of fact is a
13	conclusion of law, it may be treated as such. Additional findings as
14	necessary may appear in the Discussion portion of the opinion.
15	<u>Claim 125</u>
16	Claim 125 is representative of the claims on appeal.
17	According to the claims appendix accompanying the Appeal Brief,
18	claim 125 reads [matter in brackets added]:
19	A pharmaceutical dosage form comprising said [sic "a"]
20	[1] substantially pure crystalline azithromycin monohydrate
21	hemi-ethanol solvate and [2] a pharmaceutically acceptable
22	carrier or diluent; wherein said crystalline azithromycin
23	monohydrate hemi-ethanol solvate is characterized as having a
24	¹³ C solid state NMR spectrum comprising at least one peak with
25	chemical shift of about 179.5 ppm.

1	<u>The invention</u>
2	A review of the specification will reveal that the crystalline
3	azithromycin to which appellants make reference in claim 125 is what we
4	believe appellants call "substantially pure" azithromycin "Form F."
5	According to the specification, the invention relates to a crystal form
6	of azithromycin where the crystal form is selected from forms C, D, E, F, G,
7	H, J, M, N, O, P, Q and R. Specification, page 2:7-8.
8	A reference to Form F per se needs to be distinguished from a
9	reference to "substantially pure" Form F vis-à-vis other possible Form F's.
10	See specification, page 2:28 and page 5:22-29.
11	The empirical formula of Form F is:
12	$C_{38}H_{72}N_2O_{12}\cdot H_2O\cdot 0.5C_2H_5OH$
13	in the single crystal structure and is referred to by appellants as being
14	azithromycin monohydrate hemi-ethanol solvate.
15	The structural formula of azithromycin itself is shown in the
16	specification at page 1:8.
17	Form F has a ¹³ C solid state NMR spectrum comprising at least one
18	peak with chemical shift at about 179.5 ppm ± 0.2 ppm. Specification,
19	page 2:19 and Fig. 23 (mentioned in the specification, page 9:6).
20	Crystallographic data of Form F is set out in a table on page 11 of the
21	specification.
22	For further information concerning substantially pure azithromycin
23	Form F we refer the reader to a MEMORANDUM OPINION and ORDER
24	(Decision on Motions) entered in Li v. Singer, Interference 105,366,
25	Paper 71 (Bd. Pat. App. & Int. Nov. 8, 2006).

1	Claim 125 requires two ingredients: (1) substantially pure crystalline
2	azithromycin Form F and (2) a carrier or diluent.
3	With respect to carriers and diluents, the following appears in the
4	specification (page 32:25-33; emphasis added):
5 6 7 8 9 10 11 12 13 14 15 16 17 18	The active compound may be administered alone or in combination with pharmaceutically acceptable <i>carriers</i> or <i>diluents</i> and such administration may be carried out in single or multiple doses. More particularly, the active compound may be administered in a wide variety of different dosage forms, i.e. they may be combined with various pharmaceutically acceptable insert <i>carriers</i> in the form of tablets, capsules, lozenges, trouches, hard candies, powders, sprays, creams, salves, suppositories, jellies, gels, pastes, lotions, ointments, sachets, powders for oral suspension, <i>aqueous suspensions</i> , injectable solutions, elixirs, syrups, and the like. Such <i>carriers</i> include solid <i>diluents</i> or fillers, sterile aqueous media and various non-toxic organic solvents, etc.
19	<u>Bright</u>
20	Bright describes azithromycin. Col. 1, lines 16-17 and col. 2,
21	lines 1-15.
22	Bright does not describe azithromycin Form F or substantially pure
23	Form F.
24	<u>Singer</u>
25	Singer describes an azithromycin which Singer characterizes as an
26	ethanolate of azithromycin having an ethanol content of about 1.5% to
27	about 3%. Col. 4, lines 16-17 (claim 1).
28	Li has previously sustained its burden of establishing that a Singer
29	ethanolate of azithromycin having an ethanol content of about 1.5% to abou

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1	3% is not the same as substantially pure azithromycin Form F. Li v. Singer,
2	Interference 105,366, Paper 71 (Bd. Pat. App. & Int. Nov. 8, 2007).
3	<u>Curatolo</u>
4	We find it unnecessary to discuss what is described by Curatolo.
5	
6	E. Principles of law
7	Claims undergoing examination are given their broadest reasonable
8	construction consistent with the specification. Burlington Industries v.
9	Quigg, 822 F.2d 1581, 1583, 3 USPQ2d 1436, 1438 (Fed. Cir. 1987);
10	In re Prater, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-51 (CCPA
11	1969).
12	During the examination of a patent application, an examiner has an
13	initial burden of establishing some objective basis for questioning
14	enablement of a specification. In re Marzocchi, 439 F.2d 220, 169 USPQ
15	367 (CCPA 1971). On appeal from a lack of enablement rejection, the
16	appellant bears the burden of showing that the examiner did not have a
17	sufficient objective basis to legally support the rejection.
18	The fact that a claim may include inoperative embodiments does not
19	per se render the claim unpatentable under the first paragraph of 35 U.S.C.
20	§ 112. In re Angstadt, 537 F.2d 498, 190 USPQ 214 (CCPA 1976).
21	An anticipation under 35 U.S.C. § 102(b) or 102(e) requires a prior art
22	reference to describe every limitation in a claim—either explicitly or
23	inherently. In re Schreiber, 128 F.3d 1473, 1477, 44 USPQ2d 1429, 1431
24	(Fed Cir 1997)

1	A claimed invention is patentable if the subject matter of the claimed
2	invention would not have been obvious to a person having ordinary skill in
3	the art. 35 U.S.C. § 103(a); Graham v. John Deere Co. of Kansas City, 383
4	U.S. 1 (1966).
5	Facts relevant to a determination of obviousness include (1) the scope
6	and content of the prior art, (2) any differences between the claimed
7	invention and the prior art, (3) the level of skill in the art and (4) any
8	relevant objective evidence of obviousness or non-obviousness. Graham,
9	383 U.S. at 17-18.
10	
11	F. Discussion
12	Lack of enablement and anticipation based on Bright
13	In this particular appeal, the lack of enablement rejection and the
14	anticipation rejection based on Bright may be considered together.
15	Resolution of both rejections turns on a proper interpretation of
16	claim 125.
17	The Examiner determined that there was a lack of enablement and an
18	anticipation by Bright based on her finding that a crystalline compound
19	cannot maintain its crystalline structure in an aqueous media. Examiner's
20	Answer, page 3.
21	The Examiner also determined that appellants' "carrier" or "diluent"
22	could be "sterile aqueous media." Examiner's Answer, page 3.
23	Since a crystalline compound cannot maintain its crystalline structure
24	in water, the Examiner reasoned that appellants' disclosure is insufficient to
25	enable one to make a combination of substantially pure Form F and water

25

1	because on placing the substantially pure Form F in water there no longer
2	would be any Form F. Examiner's Answer, page 3.
3	Using similar reasoning, the Examiner found that when substantially
4	pure Form F is placed in water, a mixture of the azithromycin and water of
5	appellants would be the same as a mixture of the azithromycin of Bright and
6	water. Examiner's Answer, pages 4-5.
7	We agree with appellants, however, that claim 125 requires the
8	presence of substantially pure azithromycin Form F.
9	To the extent that a mixture does not contain substantially pure
10	Form F, it cannot fall within the scope of claim 125.
11	We can assume, as did the Examiner, that substantially pure Form F
12	would not maintain its crystalline structure in water.
13	A mixture of (1) azithromycin, resulting from de-crystallization of
14	Form F when placed in water, and (2) water are not covered by, and do not
15	fall within the scope of claim 125.
16	Even if we assume that some embodiments within the scope of
17	claim 125 might be non-enabled, the composition defined by claim 125
18	would still be useful and the specification otherwise advises one skilled in
19	the art how to make and use substantially pure azithromycin Form F mixed
20	with other carriers and diluents. In re Angstadt, supra.
21	Bright does not describe a mixture containing substantially pure
22	azithromycin Form F.
23	Accordingly, Bright cannot describe a mixture within the scope of
24	claim 125.

1	Obviousness based on Singer
2	Singer, like Bright, does not describe or render obvious substantially
3	pure azithromycin Form F.
4	Appellants and the Examiner agree that Curatolo likewise does not
5	describe substantially pure azithromycin Form F.
6	Based on Li v. Singer, what surfaces in this case is that an essential
7	element of appellants' mixture does not appear in the prior art relied upon by
8	the Examiner.
9	Accordingly, the scope and content of the prior art is such that the
10	prior art, as a whole, cannot render obvious the subject matter of claim 125.
11 12	Additional observations
13	1. In fairness to the Examiner, we wish to point out that the Examiner's
14	Answer was entered on 31 August 2006, but our decision in Li v. Singer was
15	not entered until 08 November 2006.
16	When the Examiner's Answer was written in August, the Examiner
17	could not have known what we might hold in November in an inter partes
18	case involving Li (one appellant here) and Singer (the reference relied upon
19	by the Examiner here).
20	In Li v. Singer, Li was able to sustain its burden of showing that
21	Singer did not anticipate or render obvious subject matter which is
22	somewhat broader than the subject matter of claim 125.
23	Had the Examiner been aware of Li v. Singer, we are confident the
24	rejection based on obviousness would not have been maintained.

In the appeal brief an elaborate argument is made to the effect that the 1 2. Examiner failed to follow PTO standards for claim construction. Appeal 2 3 Brief, pages 10-12. In particular, it is said that the Examiner's claim interpretation in this 4 case is inconsistent with claim interpretation by (1) the Examiner in other 5 cases and (2) other examiners in other cases. 6 The Examiner did not address appellants' argument and we think 7 correctly so. The argument simply is irrelevant. 8 Our appellate reviewing court, as well as other earlier reviewing 9 courts, has made it clear for a long time that the issue in a case is whether an 10 examiner and the board erred in the case under consideration. In re Phillips, 11 315 F.2d 943, 137 USPQ 369 (CCPA 1963) (issuance of patent to third 12 party is irrelevant to patentability on direct appeal in other case even if 13 references are the same); In re Riddle, 438 F.2d 618, 169 USPQ 45 (CCPA 14 1971) (an examiner's allowance of claim in patent does not bar rejection of 15 claim in application to substantially same invention on substantially same art 16 considered in patent prosecution). See also Fessenden v. Coe, 99 F.2d 426, 17 18 38 USPQ 516 (D.C. Cir. 1938). We have given no consideration to appellants' argument concerning 19 alleged different interpretation by the Examiner or other examiners in other 20 21 cases.

1	G. Conclusions of law
2	Appellants have sustained their burden on appeal of showing that the
3	Examiner erred in rejecting claims 125 and 128-144 as being based on a lack
4	of enablement under the first paragraph of 35 U.S.C. § 112.
5	Appellants have sustained their burden on appeal of showing that the
6	Examiner erred in rejecting claims 125 and 128-144 as being anticipated
7	under 35 U.S.C. § 102(b) by Bright.
8	Appellants have sustained their burden on appeal of showing that the
9	Examiner erred in rejecting claims 125 and 128-144 as being unpatentable
10	under 35 U.S.C. § 103(a) over Singer and Curatolo.
11 12	H. Decision
13	ORDERED that the decisions of the Examiner rejecting
14	claims 125 and 128-144 (1) for lack of enablement, (2) as being anticipated
15	by Bright, alternatively unpatentable under 35 U.S.C. § 103(a), and (3) as
16	being unpatentable over Singer and Curatolo are reversed.
17	FURTHER ORDERED that no time period for taking any
18	subsequent action in connection with this appeal may be extended under
19	37 C.F.R. § 1.136(a)(1)(iv) (2006).
20 21	<u>REVERSED</u>

mv

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